L2

L4

L10

(FILE 'HOME' ENTERED AT 12:57:00 ON 14 MAR 2005)

FILE 'EPFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL, USPAT2' ENTERED AT 12:57:11 ON 14 MAR 2005

E DELUCA H/IN

L1 489 S E3-E12

440 S L1 AND (VITAMIN(W)D)

FILE 'USPATFULL, USPAT2' ENTERED AT 13:00:05 ON 14 MAR 2005

L3 274 S L1

FILE 'CAPLUS' ENTERED AT 13:02:00 ON 14 MAR 2005

1 S US4338312/PN

SELECT L4 1 RN

L5 3916 S E1-E2

FILE 'REGISTRY' ENTERED AT 13:02:42 ON 14 MAR 2005

L6 1 S 19356-17-3/RN

SET NOTICE 1 DISPLAY

SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 13:05:07 ON 14 MAR 2005

L7 1 S 41294-56-8/RN

SET NOTICE 1 DISPLAY

SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 13:07:23 ON 14 MAR 2005

L8 3916 S L6 OR L7

L9 2 S L8 AND DELUCA

FILE 'USPATFULL, USPAT2' ENTERED AT 13:09:05 ON 14 MAR 2005

238 S L3 AND (PHOSPHORUS OR P)

L11 235 S L10 AND (VITAMIN(W) (D OR D3))

L12 211 S L6 OR L7

L13 59 S DELUCA AND L12

L14 31 S L13 AND PHOSPHORUS

```
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) / N: y
L7
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
     41294-56-8 REGISTRY
RN
CN
     9,10-Secocholesta-5,7,10(19)-triene-1,3-diol, (1\alpha,3\beta,5Z,7E)-
     (9CI)
           (CA INDEX NAME)
OTHER NAMES:
CN
     \alpha-Calcidol
CN
     1-Hydroxycholecalciferol
     1-Hydroxyvitamin D3
CN
     1\alpha (OH) D3
CN
CN
     1α-Hydroxycholecalciferol
CN
     1\alpha-Hydroxyvitamin D3
CN
    Alfacalcidol
CN
    Alfarol
CN
    Alpha D3
    Alphacalcidol
CN
CN
    Alpharol
CN
    Bondiol
CN
    EinsAlpha
CN
     Etalpha
CN
     Oxydevit
CN
    Un Alfa
CN
     Un Alpha
FS
     STEREOSEARCH
DR
     125324-15-4, 41461-06-7, 43157-29-5, 43217-90-9
MF
     C27 H44 O2
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB,
       IFIPAT, IFIUDB, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA,
       MEDLINE, MRCK*, NAPRALERT, PHAR, PROMT, PS, RTECS*, SPECINFO, TOXCENTER,
       USAN, USPAT2, USPATFULL, VETU
         (*File contains numerically searchable property data)
     Other Sources: EINECS**, WHO
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA
      CAplus document type: Conference; Dissertation; Journal; Patent
RL.P
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
       PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
RLD.P
      Roles for non-specific derivatives from patents: BIOL (Biological
      study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP
      Roles from non-patents: ANST (Analytical study); BIOL (Biological
      study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
       (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological
```

study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.

(Preparation); PROC (Process); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1168 REFERENCES IN FILE CA (1907 TO DATE)

23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1169 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN
     19356-17-3 REGISTRY
CN
     9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3\beta,5Z,7E)- (9CI)
     INDEX NAME)
OTHER CA INDEX NAMES:
     9,10-Secocholesta-5,7,10(19)-triene-3\beta,25-diol (8CI)
OTHER NAMES:
CN
     25-HCC
CN
     25-Hydroxycholecalciferol
     25-Hydroxyvitamin D
CN
     25-Hydroxyvitamin D3
CN
CN
     5,6-cis-25-Hydroxyvitamin D3
CN
     Calcidiol
CN
     Calcifediol
CN
     Calderol
CN
     Cholecalciferol, 25-hydroxy-
CN
     Dedrogyl
CN
     Didrogyl
     Hidroferol
CN
CN
     Ro 8-8892
CN
     U 32070E
FS
     STEREOSEARCH
     25631-40-7
DR
MF
     C27 H44 O2
CI
     COM
LC
                  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
     STN Files:
       BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN,
       CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PROMT, PS, SPECINFO,
       TOXCENTER, USAN, USPAT2, USPATFULL, VETU
         (*File contains numerically searchable property data)
                      EINECS**, WHO
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA
       CAplus document type: Conference; Dissertation; Journal; Patent; Report
RĹ.P
       Roles from patents: ANST (Analytical study); BIOL (Biological study);
       PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
RLD.P
       Roles for non-specific derivatives from patents: BIOL (Biological
       study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
RL.NP
       Roles from non-patents: ANST (Analytical study); BIOL (Biological
       study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
       (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
       study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU
       (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); USES
```

Absolute stereochemistry.

Double bond geometry as shown.

(Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3012 REFERENCES IN FILE CA (1907 TO DATE)

44 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3012 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 16 or 17

L12 211 L6 OR L7

=> s DELUCA and 112

L13 59 DELUCA AND L12

=> s 113 and PHOSPHORUS

31 L13 AND PHOSPHORUS

=> d ibib 1-31

DOCUMENT TYPE:

L14 ANSWER 1 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2003:294829 USPATFULL

TITLE:

Dietary calcium as a supplement to vitamin D compound treatment of multiple sclerosis

INVENTOR(S): DeLuca, Hector F., Deerfield, WI, UNITED STATES

Cantorna, Margheritea T., State College, PA, UNITED >

Humpal-Winter, Jean, Poynette, WI, UNITED STATES

NUMBER KIND DATE -----

US 2003207847 PATENT INFORMATION: A1 20031106 US 2003207847 A1 20031106 US 2003-405653 A1 20030402 (10)

APPLICATION INFO.:

Continuation of Ser. No. US 2002-231726, filed on 30 RELATED APPLN. INFO.:

Aug 2002, ABANDONED Continuation of Ser. No. US

1999-349528, filed on 8 Jul 1999, GRANTED, Pat. No. US

6479474 Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: QUARLES & BRADY LLP, 411 E. WISCONSIN AVENUE, SUITE

2040, MILWAUKEE, WI, 53202-4497

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 723

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 2 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2003:234856 USPATFULL

TITLE: Vitamin D derivatives with carbo- or heterocyclic

substituents at C-25, process for their production, intermediate products and use for the production of

pharmaceutical agents

INVENTOR(S): Steinmeyer, Andreas, Berlin, GERMANY, FEDERAL REPUBLIC

Kirsch, Gerald, Berlin, GERMANY, FEDERAL REPUBLIC OF Neef, Gunter, Berlin, GERMANY, FEDERAL REPUBLIC OF Schwarz, Katica, Berlin, GERMANY, FEDERAL REPUBLIC OF

Thieroff-Ekerdt, Ruth, Berlin, GERMANY, FEDERAL

REPUBLIC OF

Wiesinger, Herbert, Berlin, GERMANY, FEDERAL REPUBLIC

Haberey, Martin, Berlin, GERMANY, FEDERAL REPUBLIC OF Fahnrich, Marianne, Berlin, GERMANY, FEDERAL REPUBLIC

PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Berlin, GERMANY, FEDERAL

REPUBLIC OF (non-U.S. corporation)

NUMBER KIND DATE ------US 6613920 B1 US 2000-695091 PATENT INFORMATION: 20030902 APPLICATION INFO.: 20001025 (9)

Division of Ser. No. US 180018 RELATED APPLN. INFO.:

> DATE NUMBER

PRIORITY INFORMATION: DE 1996-19619036 19960430 DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED PRIMARY EXAMINER: Qazi, Sabiha

LEGAL REPRESENTATIVE: Millen, White, Zelano, Branigan, P.C.

NUMBER OF CLAIMS: 2.6 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT: 3329

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 3 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2003:203387 USPATFULL

TITLE: Vitamin D derivatives with carbo- or heterocyclic

substituents at C-25, a process for their production, intermediate products and their use for producing

medicaments

INVENTOR (S): Steinmeyer, Andreas, Berlin, GERMANY, FEDERAL REPUBLIC

Kirsch, Gerald, Berlin, GERMANY, FEDERAL REPUBLIC OF Neef, Gunter, Berlin, GERMANY, FEDERAL REPUBLIC OF Schwarz, Katica, Berlin, GERMANY, FEDERAL REPUBLIC OF

Thieroff-Ekerdt, Ruth, Berlin, GERMANY, FEDERAL

REPUBLIC OF

Wiesinger, Herbert, Berlin, GERMANY, FEDERAL REPUBLIC

Haberey, Martin, Berlin, GERMANY, FEDERAL REPUBLIC OF Fahnrich, Marianne, Berlin, GERMANY, FEDERAL REPUBLIC

OF

PATENT ASSIGNEE(S): Schering Aktiengellschaft, Berlin, GERMANY, FEDERAL

REPUBLIC OF (non-U.S. corporation)

NUMBER KIND DATE ------PATENT INFORMATION: US 6600058 B1 20030729 APPLICATION INFO.: US 2000-695137 20001025 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 180018

> NUMBER DATE -----

PRIORITY INFORMATION: DE 1996-19619036 19960430

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED PRIMARY EXAMINER: Qazi, Sabiha

LEGAL REPRESENTATIVE: Millen, White, Zelano & Branigan, P.C.

NUMBER OF CLAIMS: 27 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT: 3186

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 4 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2003:30924 USPATFULL

TITLE: Dietary calcium as a supplement to vitamin D compound

treatment of multiple sclerosis

INVENTOR(S): DeLuca, Hector F., Deerfield, WI, UNITED STATES

Cantorna, Margheritea T., State College, PA, UNITED

DATE

STATES

Humpal-Winter, Jean, Poynette, WI, UNITED STATES

KIND -----PATENT INFORMATION: US 2003022873 A1 20030130 APPLICATION INFO.: US 2002-231726 A1 20020830 (-1.0.)RELATED APPLN. INFO.:

NUMBER

Continuation of Ser. No. US-1999-349528, filed on 8 Jul

1999, GRANTED, Pat. No. \\$\sigma 6479474

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: QUARLES & BRADY LLP, 411 E. WISCONSIN AVENUE, SUITE

2040, MILWAUKEE, WI, 53202-4497

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

1 6 Drawing Page(s)

NUMBER OF DRAWINGS:

725

21

LINE COUNT: CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 5 OF 31 USPATFULL on STN ACCESSION NUMBER:

2003:17936 USPATFULL

TITLE:

Increasing phosphorus uptake from the gut of

dairy cows by supplementing lalpha-hydroxylated vitamin

D compounds

INVENTOR(S):

DeLuca, Hector F., Deerfield, WI, UNITED STATES Jorgenson, Neal A., Middleton, WI, UNITED STATES Satter, Larry D., Madison, WI, UNITED STATES

	NUMBER									KIND.					DATE														
_	_	_	_	_				_	_	_	_	_	_	_		_	_	_	_	_	_	_			_	_	_	_	_

PATENT INFORMATION: APPLICATION INFO.:

US 2003013690 US 2001-815573

20030116 A 1

Α1 20010322

Util(ity

DOCUMENT TYPE: FILE SEGMENT:

LEGAL REPRESENTATIVE:

APPLICATION

Lant Opplicantion Thomas M. Wozny, ANDRUS, SCEALES, STARKE & SAWALL, LLP

(9) <

Suite 1100, 100 East Wisconsin Avenue, Milwaukee, WI,

53202-4178

NUMBER OF CLAIMS:

1

EXEMPLARY CLAIM: LINE COUNT:

550

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 6 OF 31 USPATFULL on STN

ACCESSION NUMBER:

2002:92818 USPATFULL

TITLE:

NEW VITAMIN D DERIVATIVES WITH CARBO-OR HETEROCYCLIC SUBSTITUENTS AT C-25, A PROCESS FOR THEIR PRODUCTION, INTERMEDIATE PRODUCTS AND THEIR USE FOR PRODUCING

MEDICAMENTS

INVENTOR(S):

STEINMEYER, ANDREAS, BERLIN, GERMANY, FEDERAL REPUBLIC

KIRSCH, GERALD, BERLIN, GERMANY, FEDERAL REPUBLIC OF NEFF, GUNTER, BERLIN, GERMANY, FEDERAL REPUBLIC OF SCHWARZ, KATICA, BERLIN, GERMANY, FEDERAL REPUBLIC OF

THIEROFF-EKERDT, RUTH, BERLIN, GERMANY, FEDERAL

REPUBLIC OF

WIESINGER, HERBERT, BERLIN, GERMANY, FEDERAL REPUBLIC

HABEREY, MARTIN, BERLIN, GERMANY, FEDERAL REPUBLIC OF FAHNRICH, MARIANNE, BERLIN, GERMANY, FEDERAL REPUBLIC

	NOMBER	KIND	DAIL	
PATENT INFORMATION:	US 2002049344	A1	20020425	
	US 6642218	B2	20031104	
APPLICATION INFO.:	US 1998-180018	A1	19981211	(9)
	WO 1997-EP2013		19970421	

MIMPED

NUMBER DATE

PRIORITY INFORMATION:

DE 1996-19619036 19960430

DOCUMENT TYPE: FILE SEGMENT:

Utility APPLICATION

LEGAL REPRESENTATIVE:

MILLEN, WHITE, ZELANO & BRANIGAN, P.C., 2200 CLARENDON

BLVD., SUITE 1400, ARLINGTON, VA, 22201

NUMBER OF CLAIMS:

10 1

EXEMPLARY CLAIM: LINE COUNT:

3651

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 7 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2002:27465 USPATFULL

TITLE: DIETARY CALCIUM AS A SUPPLEMENT TO VITAMIN D COMPOUND

TREATMENT OF MULTIPLE SCLEROSIS

INVENTOR(S): DELUCA, HECTOR F., DEERFIELD, WI, UNITED STATES

CANTORNA, MARGHERITE T., MIDDLETON, WI, UNITED STATES

HUMPAL-WINTER, JEAN, POYNETTE, WI, UNITED STATES

DOCUMENT TYPE: Utility / FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: QUARLES & BRADY LLP, 411 E. WISCONSIN AVENUE, SUITE

2040, MILWAUKEE, WI, 53202-4497

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 648

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 8 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2001:158268 USPATFULL

TITLE: Treatment of t-cell immunodeficiencies with vitamin D

compounds

INVENTOR(S): DeLuca, Hector F., Deerfield, WI, United States

Yang, Shouli, Memphis, TN, United States Prahl, Jean M., Madison, WI, United States Smith, Connie M., Madison, WI, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-159616, filed on 24 Sep 1998, now abandoned Division of Ser. No. US

No. US 5880114 Continuation-in-part of Ser. No. US 1995-413915, filed on 30 Mar 1995, now abandoned Continuation of Ser. No. US

Continuation of Ser. No. US 1993-78555, filed on 10 Aug

1993, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Criares, Theodore J.

LEGAL REPRESENTATIVE: Andrus, Sceales, Starke & Sawall, LLP

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 891

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 9 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2001:97905 USPATFULL

TITLE: Methods for preparation and use of 1α , 24(S)-

dihydroxy vitamin D2

INVENTOR(S): Horst, Ronald L., Ames, IA, United States

Bishop, Charles W., Madison, WI, United States

Jones, Glenville, Kingston, Canada

Koszewski, Nicholas J., Lexington, KY, United States

Knutson, Joyce C., Madison, WI, United States Moriarty, Robert M., Oak Park, IL, United States Reinhardt, Timothy, Ames, IA, United States Penmasta, Raju, Westmount, IL, United States Strugnell, Stephen, Madison, WI, United States χ

Guo, Liang, Bolingbrook, IL, United States

Singhal, Sanjay K., Morton Grove, IL, United States

Zhao, Lei, Lamont, IL, United States

PATENT ASSIGNEE(S): Bone Care International, Inc., Middleton, WI, United

States (U.S. corporation)

NUMBER	KIND	DATE
	-	

PATENT INFORMATION: US 6251883 B1 20010626 APPLICATION INFO.: US 1998-211991 19981214

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-515801, filed

on 16 Aug 1995, now abandoned Continuation of Ser. No. US 1994-275641, filed on 14 Jul 1994, now abandoned Continuation of Ser. No. US 1992-940246, filed on 28 Aug 1992, now abandoned Continuation-in-part of Ser. No. US 1991-637867, filed on 8 Jan 1991, now abandoned Continuation-in-part of Ser. No. WO 1992-US313, filed

(9)

(8)

Check

on 7 Jan 1992

DOCUMENT TYPE:

Utility GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Jones, Dwayne O.

LEGAL REPRESENTATIVE: Michael Best & Friedrich LLP, Welch, Teresa J.

NUMBER OF CLAIMS: 7 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 1235

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 10 OF 31 USPATFULL on STN

ACCESSION NUMBER: 2000:15331 USPATFULL

TITLE: Animal feed containing carboxylic acids

INVENTOR(S): DeLuca, Hector F., Deerfield, WI, United States

Baker, David H., Champaign, IL, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE _ _ _ _ _ _ _ _ _ US 6022555 20000208 19970905 US 1997-<u>9</u>24607

Utility DOCUMENT TYPE: FILE SEGMENT:

Granted PRIMARY EXAMINER: Levy, Neil S.

Andrus, Sceales, Starke & Sawall LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 64 EXEMPLARY CLAIM: 1 LINE COUNT: 1186

PATENT INFORMATION:

APPLICATION INFO.:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 11 OF 31 USPATFULL on STN

ACCESSION NUMBER: 1999:128181 USPATFULL

TITLE: Methods for improving meat tenderness

INVENTOR(S): Owens, Fredric N., Stillwater, OK, United States

Gill, Donald R., Stillwater, OK, United States Morgan, J. Brad, Stillwater, OK, United States The Board of Regents for Oklahoma State University,

PATENT ASSIGNEE(S): Stillwater, OK, United States (U.S. corporation)

	NUMBER	KIND	DATE	
*				
PATENT INFORMATION:	US 5968565		19991019	
APPLICATION INFO.:	US 1998-121585		19980723	(9)

NUMBER DATE

PRIORITY INFORMATION: US 1997-53769P 19970725 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Sayala, Chihaya D.

LEGAL REPRESENTATIVE: Fellers, Snider, Blankenship, Bailey & Tippens, P.C.

NUMBER OF CLAIMS: 13 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 957

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 12 OF 31 USPATFULL on STN

ACCESSION NUMBER: 1999:92343 USPATFULL

TITLE: Low phosphorus animal feed containing

 $1\alpha\text{-hydroxylated}$ vitamin D compounds and method of

preparing

DeLuca, Hector F., Deerfield, WI, United States INVENTOR(S):

Baker, David H., Champaign, IL, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

Board of Trustees of the University of Illinois, Urbana, IL, United States (U.S. corporation)

`			~ \/ /	Λ
NUMBER	KIND	DATE	(91) V	1
110 5025624		19990810	•	

PATENT INFORMATION:

US 1997-969295 APPLICATION INFO.: 19971113 (8)

Continuation-in-part of Ser. No. US 1996-757448, filed RELATED APPLN. INFO.:

on 27 Nov 1996, now abandoned which is a continuation of Ser. No. US 1995-452847, filed on 30 May 1995, now

abandoned which is a division of Ser. No. US 1995-383952, filed on 6 Feb 1995, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Corbin, Arthur L.

LEGAL REPRESENTATIVE: Andrus, Sceales, Starke & Sawall

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 803

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 13 OF 31 USPATFULL on STN

ACCESSION NUMBER: 1999:30796 USPATFULL

Treatment of immune deficiency with vitamin D compounds TITLE: INVENTOR(S):

Deluca, Hector F., Deerfield, WI, United States

Yang, Shouli, Memphis, TN, United States Prahl, Jean M., Madison, WI, United States Smith, Connie M., Madison, WI, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5880114		19990309	
APPLICATION INFO.:	US 1996-648898		19961112	(8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-413915, filed on 30 Mar 1995, now abandoned which is a continuation

of Ser. No. US 1993-78555, filed on 10 Aug 1993, now abandoned

Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Criares, Theodore J.

LEGAL REPRESENTATIVE: Andrus, Sceales, Starke & Sawall

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM:

DOCUMENT TYPE:

NUMBER OF DRAWINGS: 12 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 912

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 14 OF 31 USPATFULL on STN

ACCESSION NUMBER: 91:60804 USPATFULL TITLE:

Process for the preparation of 1 alpha, 25-

INVENTOR(S):

dihydroxylated vitamin D.sub.2 and related compounds DeLuca, Hector F., 5130 Minocqua Crescent, Madison, WI,

United States 53705

Schnoes, Heinrich K., 1806 Summit Ave., Madison, WI,

United States 53705

Sicinski, Rafal R., University of Warsaw, Department of

Chemistry, 02-093, Warsaw, Pasteura 1, Poland

Tanaka, Yoko, 72 Paxwood Rd., Delmar, NY, United States

NUMBER KIND DATE

PATENT INFORMATION:

US 5036061

19910730

APPLICATION INFO.:

US 1989-442483

19891122 (7)

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1986-862075, filed on 12 May 1986, now abandoned which is a continuation-in-part of Ser. No. US 1983-492863, filed on 9 May 1983, now

abandoned

DOCUMENT TYPE:

Utility Granted

FILE SEGMENT: PRIMARY EXAMINER:

Ivy, C. Warren

ASSISTANT EXAMINER:

Northington-Davis, Zinna

LEGAL REPRESENTATIVE:

Andrus, Sceales, Starke & Sawall

NUMBER OF CLAIMS:

16 1

786

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

4 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 15 OF 31 USPATFULL on STN

ACCESSION NUMBER: TITLE:

87:39631 USPATFULL $1-\alpha$ -hydroxy vitamin D compounds and process for

preparing same

INVENTOR(S):

Hesse, Robert H., 49 Amherst St., Cambridge, MA, United

States 02142

Rizzardo, Ezzio, 14, Hopegood Place, Garran, ACT 2605,

Australia

Barton, Derek H. R., 47 Onslow Square, London S.W. 7,

England

NUMBER KIND DATE -----

PATENT INFORMATION:

US 4670190 19870602 US 1984-657270 19841003

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1984-571738, filed on 18 Jan 1984, now abandoned which is a continuation of Ser. No. US 1982-348778, filed on 16 Feb 1982, now abandoned which is a continuation of Ser. No. US 1980-210330, filed on 25 Nov 1980, now abandoned which is a continuation of Ser. No. US 1980-125108, filed on 27 Feb 1980, now abandoned which is a continuation of Ser. No. US 1978-922659, filed on 7 Jul 1978, now abandoned which is a continuation of Ser. No. US 1977-817825,

(6)

filed on 21 Jul 1977, now abandoned which is a

continuation of Ser. No. US 1975-538259, filed on 3 Jan 1975, now abandoned which is a continuation-in-part of Ser. No. US 1973-362339, filed on 21 May 1973, now

patented, Pat. No. US 3901928 which is a

continuation-in-part of Ser. No. US 1973-322462, filed

on 10 Jan 1973, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT: PRIMARY EXAMINER:

Granted

Roberts, Elbert L.

LEGAL REPRESENTATIVE: NUMBER OF CLAIMS:

Bacon & Thomas

EXEMPLARY CLAIM:

1

LINE COUNT:

1004

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 16 OF 31 USPATFULL on STN

ACCESSION NUMBER: 86:28190 USPATFULL

TITLE: Method for treating metabolic bone disease in mammals

INVENTOR(S): DeLuca, Hector F., Madison, WI, United States Schnoes, Heinrich K., Madison, WI, United States PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND

PATENT INFORMATION: US 4588716 US 1985-691824 19860513 APPLICATION INFO.: 19850116 (6)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1984-607327, filed

on 4 May 1984, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Robinson, Douglas W. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)

LINE COUNT: 482

PATENT ASSIGNEE(S):

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 17 OF 31 USPATFULL on STN ACCESSION NUMBER: 83:685 USPATFULL

TITLE: Process for preparing 23,25-dihydroxyvitamin D.sub.3

DeLuca, Hector F., Madison, WI, United States INVENTOR(S): Schnoes, Heinrich K., Madison, WI, United States

Wichman, Joseph K., Madison, WI, United States Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE -----

US 4367177 PATENT INFORMATION: 19830104 19810415 (6) APPLICATION INFO.: US 1981-254570

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Roberts, Elbert L. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM: 1 LINE COUNT: 219

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 18 OF 31 USPATFULL on STN

ACCESSION NUMBER: 82:29191 USPATFULL

TITLE: Administration of biologically active vitamin D.sub.3

and vitamin D.sub.2 materials

INVENTOR(S): Holick, Michael F., Sudbury, MA, United States

Uskokovic, Milan R., Upper Montclair, NJ, United States

PATENT ASSIGNEE(S): Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S.

corporation)

NUMBER KIND DATE PATENT INFORMATION:

US 4335120 19820615 US 1980-203291 19801103 (6) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1980-137673, filed on 4 Apr 1980, now abandoned which is a division of

Ser. No. US 1979-22393, filed on 21 Mar 1979, now patented, Pat. No. US 4230701, issued on 28 Oct 1980

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Robinson, Douglas W. LEGAL REPRESENTATIVE: Saxe, Jon S., Gould, George M., Epstein, William H.

NUMBER OF CLAIMS: 27 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 970

INVENTOR(S):

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 19 OF 31 USPATFULL on STN

ACCESSION NUMBER: 81:24669 USPATFULL

TITLE: Process for preparing 1-hydroxylated vitamin D

> compounds from 5,6-trans-vitamin D compounds DeLuca, Hector F., Madison, WI, United States Schnoes, Heinrich K., Madison, WI, United States

Hamer, David E., Madison, WI, United States Paaren, Herbert E., Verona, WI, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE -----

US 4265822 19810505 US 1979-73840 19790910 (6) PATENT INFORMATION: APPLICATION INFO.:

Utility DOCUMENT TYPE: FILE SEGMENT: Granted

PRIMARY EXAMINER: Roberts, Elbert L. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 312

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 20 OF 31 USPATFULL on STN

ACCESSION NUMBER: 81:21884 USPATFULL

TITLE: Fluorovitamin D compounds and processes for their

preparation

INVENTOR(S): DeLuca, Hector F., Madison, WI, United States

Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

Onisko, Bruce L., Madison, WI, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

KIND DATE NUMBER ----- -----PATENT INFORMATION:

US 4263214 19810421 US 1979-64209 19790806 (6) APPLICATION INFO.:

RELATED APPLN. INFO.: Division of Ser. No. US 1978-928279, filed on 26 Jul

1978, now patented, Pat. No. US 4188345 Utility

DOCUMENT TYPE:

PRIMARY EXAMINER: Roberto Roberts, Elbert L. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: 6 EXEMPLARY CLAIM: 1 LINE COUNT: 962

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 21 OF 31 USPATFULL on STN

ACCESSION NUMBER: 80:57726 USPATFULL

TITLE: Process for preparing 1α -hydroxyvitamin D

compounds from 1α -hydroxy-3,5-cyclovitamin D

compounds

INVENTOR(S): DeLuca, Hector F., Madison, WI, United States

Schnoes, Heinrich K., Madison, WI, United States Hamer, David E., Madison, WI, United States Paaren, Herbert E., Verona, WI, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE -----

US 4234495 PATENT INFORMATION:

19801118 19790910 (6) PATENT INFORMATION US 1979US 1979Utility US 1979-73839

FILE SEGMENT: Granted

Roberts, Elbert L. PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM: 1 LINE COUNT: 287

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 22 OF 31 USPATFULL on STN

ACCESSION NUMBER: 80:53849 USPATFULL

Administration of biologically active vitamin D.sub.3 TITLE:

and vitamin D.sub.2 materials

INVENTOR(S): Holick, Michael F., Sudbury, MA, United States

Uskokovic, Milan R., Upper Montclair, NJ, United States

PATENT ASSIGNEE(S): Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S.

corporation)

NUMBER KIND DATE -----

US 4230701 PATENT INFORMATION: APPLICATION INFO.: 19801028 19790321 (6)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Robinson, Douglas W.

LEGAL REPRESENTATIVE: Saxe, Jon S., Leon, Bernard S., Epstein, William H.

NUMBER OF CLAIMS: 6 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 839

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 23 OF 31 USPATFULL on STN

ACCESSION NUMBER: 80:53775 USPATFULL

TITLE: Fluorovitamin D compounds and processes for their

preparation

INVENTOR(S): DeLuca, Hector F., Madison, WI, United States

> Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

Onisko, Bruce L., Madison, WI, United States

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 4230627 APPLICATION INFO.: US 1979-64213 19801028 19790806 (6)

RELATED APPLN. INFO.: Division of Ser. No. US 1978-928279, filed on 26 Jul

1978, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Roberts, Elbert L. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 955

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 24 OF 31 USPATFULL on STN

ACCESSION NUMBER: 80:52478 USPATFULL

TITLE: Fluorovitamin D compounds and processes for their

preparation

INVENTOR (S): DeLuca, Hector F., Madison, WI, United States

Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

Onisko, Bruce L., Madison, WI, United States

Wisconsin Alumni Research Foundation, Madison, WI, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 4229358 19801021 APPLICATION INFO.: US 1979-64211 19790803

RELATED APPLN. INFO.: Division of Ser. No. US 1978-928279, filed on 26 Jul

19790803 (6)

1978, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT: Granted PRIMARY EXAMINER: Roberts, Elbert L.

NUMBER OF CLAIMS: 9

LEGAL REPRESENTATIVE: Bremer, Howard W.

EXEMPLARY CLAIM:

LINE COUNT:

960

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 25 OF 31 USPATFULL on STN

ACCESSION NUMBER:

80:52477 USPATFULL

TITLE:

Fluorovitamin D compounds and processes for their

preparation

INVENTOR(S):

DeLuca, Hector F., Madison, WI, United States Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

Onisko, Bruce L., Madison, WI, United States

PATENT ASSIGNEE(S):

Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 4229357 19801021 APPLICATION INFO.: US 1979-64210 19790806 (6)

RELATED APPLN. INFO.: Division of Ser. No. US 1978-928279, filed on 26 Jul

1978, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT: Granted PRIMARY EXAMINER: Roberts, Elbert L.

LEGAL REPRESENTATIVE: Bremer, Howard W. NUMBER OF CLAIMS: 9

EXEMPLARY CLAIM:

1

LINE COUNT:

960

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 26 OF 31 USPATFULL on STN

TITLE:

ACCESSION NUMBER: 80:49749 USPATFULL

INVENTOR(S):

Fluorovitamin D compounds and processes for their preparation

DeLuca, Hector F., Madison, WI, United States Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

PATENT ASSIGNEE(S):

Onisko, Bruce L., Madison, WI, United States Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND

PATENT INFORMATION: US 4226787 APPLICATION INFO.: US 1979-64212 19801007 19790806 (6)

RELATED APPLN. INFO.: Division of Ser. No. US 1978-928279, filed on 26 Jul 1978, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

FILE SEGMENT: Granted
PRIMARY EXAMINER: Roberts, Elbert L.
LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 942

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 27 OF 31 USPATFULL on STN

ACCESSION NUMBER: 80:46956 USPATFULL

TITLE: Fluorovitamin D compounds and processes for their

preparation

INVENTOR(S): DeLuca, Hector F., Madison, WI, United States

> Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

Onisko, Bruce L., Madison, WI, United States

Wisconsin Alumni Research Foundation, Madison, WI, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE -----

US 4224230 PATENT INFORMATION: 19800923 US 1979-64208 APPLICATION INFO .: 19790806 (6)

RELATED APPLN. INFO.: Division of Ser. No. US 1978-928279, filed on 26 Jul

1978, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Roberts, Elbert L. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM: 1 LINE COUNT: 949

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 28 OF 31 USPATFULL on STN

ACCESSION NUMBER: 80:7944 USPATFULL

TITLE: Fluorovitamin D compounds and processes for their

preparation

INVENTOR(S): DeLuca, Hector F., Madison, WI, United States

Schnoes, Heinrich K., Madison, WI, United States Napoli, Jr., Joseph L., Madison, WI, United States

Onisko, Bruce L., Madison, WI, United States

Wisconsin Alumni Research Foundation, Madison, WI, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 4188345 19800212 US 1978-928279 APPLICATION INFO.: 19780726 (5)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Schwartz, Gerald A. LEGAL REPRESENTATIVE: Bremer, Howard W.

NUMBER OF CLAIMS: 5 • 1 EXEMPLARY CLAIM: LINE COUNT: 973

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 29 OF 31 USPATFULL on STN

ACCESSION NUMBER: 75:43702 USPATFULL

TITLE: 1α , 3β -Dihydroxy steroid-5-enes method of

> preparing same and their use for preparing 1α -hydroxy-25-hydrogen vitamin D compounds

INVENTOR(S): Hesse, Robert Henry, 49 Amherst St., Cambridge, MA,

United States 02142

Rizzardo, Ezzio, 49 Amherst St., Cambridge, MA, United

States 02142

Barton, Derek Harold Richard, 47 Onslow Sq., London

S.W. 7, England

NUMBER KIND DATE

PATENT INFORMATION: US 3901928
APPLICATION INFO.: US 1973-362339 19750826 19730521 (5)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1973-322462, filed

on 10 Jan 1973, now abandoned Utility

DOCUMENT TYPE:

FILE SEGMENT: Granted
PRIMARY EXAMINER: Roberts, Elbert L. LEGAL REPRESENTATIVE: Bacon & Thomas

NUMBER OF CLAIMS: 6 EXEMPLARY CLAIM: 1 LINE COUNT: 718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 30 OF 31 USPAT2 on STN

ACCESSION NUMBER: 2002:92818 USPAT2

TITLE:

Vitamin D derivatives with carbo- or heterocyclic substituents at C-25, a process for their production, intermediate products and their use for producing

medicaments

INVENTOR(S):

Steinmeyer, Andreas, Berlin, GERMANY, FEDERAL REPUBLIC

OF

Kirsch, Gerald, Berlin, GERMANY, FEDERAL REPUBLIC OF Neef, Gunter, Berlin, GERMANY, FEDERAL REPUBLIC OF Schwarz, Katica, Berlin, GERMANY, FEDERAL REPUBLIC OF Thieroff-Ekerdt, Ruth, Berlin, GERMANY, FEDERAL

REPUBLIC OF

Wiesinger, Herbert, Berlin, GERMANY, FEDERAL REPUBLIC

Haberey, Martin, Berlin, GERMANY, FEDERAL REPUBLIC OF Fahnrich, Marianne, Berlin, GERMANY, FEDERAL REPUBLIC

OF

PATENT ASSIGNEE(S):

Schering Aktiengesellschaft, Berlin, GERMANY, FEDERAL

REPUBLIC OF (non-U.S. corporation)

NUMBER KIND DATE -----US 6642218 B2 (20031104 WO 9741096 19971106 PATENT INFORMATION: 19971106 US 1998-180018 APPLICATION INFO.: 19981211 (9) WO 1997-EP2013 19970421

> NUMBER DATE -----

PRIORITY INFORMATION:

DE 1996-19619036 19960430

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Qazi, Sa

Qazi, Sabiha

LEGAL REPRESENTATIVE: Millen, White, Zelano, Branigan, P.C.

NUMBER OF CLAIMS: 28

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT:

3234

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L14 ANSWER 31 OF 31 USPAT2 on STN

TITLE:

ACCESSION NUMBER: 2002:27465 USPAT2

Dietary calcium as a supplement to vitamin D compound

treatment of multiple sclerosis

INVENTOR(S):

DeLuca, Hector F., Deerfield, WI, United States

Cantorna, Margherite T., Middleton, WI, United States

Humpal-Winter, Jean, Poynett, WI, United States Wisconsin Alumni Research Foundation, Madison, WI,

United States (U.S. corporation)

NUMBER KIND DATE ----------

PATENT INFORMATION: US 6479474 B2 20021112

PATENT ASSIGNEE(S):

APPLICATION INFO.: US 1999-349528 19990708 (9)

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Criares, Theodore J.

ASSISTANT EXAMINER: Kim, Jennifer

LEGAL REPRESENTATIVE: Quarles & Brady LLP

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 694

CAS INDEXING IS AVAILABLE FOR THIS PATENT.